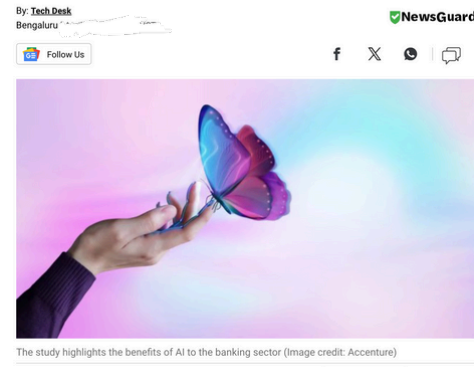




Join Us

Generative AI could improve banking productivity by up to 30%: Accenture study

The study suggests that banks can leverage generative AI technologies to improve productivity and save costs.

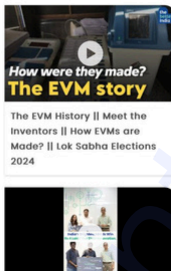


Space enthusiasts Awais Ahmed and Kshitij Khandelwal started Pixxel — a startup that works on building and launching hyperspectral imaging satellites to combat climate change.

By Sowmya Mani
July 21, 2023



Chennai Entrepreneur
Loganathan's Super Food II
Microgreen Farm II
Entrepreneur II Nutrigamy



Pixxel monitors the 'pulse of the planet'.

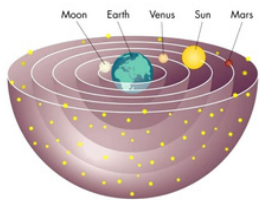


An image captured using Pixxel's hyperspectral imaging satellite

"When accidents cause internal bleeding, normal cameras cannot see what's happening inside. So we use ultrasound and MRI imaging. Similarly, when there are gas leaks or crop diseases, normal satellites cannot see what's wrong. This is where hyperspectral imaging satellites come in. They can capture images in over a hundred wavelengths," explains Awais.

Scientific Revolution

The Medieval View



Geo centric theory

Aristotle
Ptolemy

During Renaissance, European Explorers traveled to Africa, Asia, America

A New Way of Thinking.



Helio centric theory in his book

On the Revolutions of the Heavenly Bodies.

Galileo Galilei



Built telescope to study the heavens in 1609.

Published book "Starry Messenger" described his astonishing observations
Jupiter⁽⁴⁾ - Moon - Sun's dark spot

Eventually develop the new approach to science called Scientific Method

Eg: Francis Bacon gave "experimental Method".

Experiment & draw conclusion

Isaac Newton



Gave theory of Motion

The same force ruled motion of the planets and all matter on earth and in space.

"The Mathematical Principles of Natural Philosophy".

Scientific Revolution spread.

Eg:



invented microscope

Bacteria

Red Blood Cell

Eg:

Evangelista Torricelli



Eg: Gabriel Fahrenheit
Thermometer

Eg: Galen work "On the Structure of the Human Body"

Eg: Edward Jenner
vaccine (small pox)

Enlightened spread
Industrial Revolution (1700-1900)

Boon

Science can help in resolving the problem of climate change

Eg: UN Environmental program speech on Science based Solution for a sustainable planet at Sweden. R.E.

Photo voltaic cells

Wind turbines

Green Hydrogen

steel, refineries, fertilizers.

Electric Vehicles

FAME scheme

Geo thermal Energy

to harness untapped potential

Ocean Energy

National Solar Mission

500 GW target 2030

To achieve NDCs target and to reduce emission intensity of its GDP by 45% from 2005 level by 2030.

Science is the key

for it Govt. gave

Production linked Incentive (PLI) scheme.

Eg: Ecozen developed climate-smart deep-tech solution for improving agriculture productivity and providing energy storage.

Eg: Hygenco decarbonizing various sectors such as steel, chemicals etc.

SHE MARKETPLACE

US Based Startup Support

Women-led e-commerce

Empower women mentally, physically, and financially.

Science is empowering women by providing them affordable Skill & Education

Making women safe and secure

Eg: Himmat App
Shake 2 Safety
bSafe
I'm safe

online platform to empower women financially

Eg: Romoni encourage Micro-entrepreneurs
Eg: Wovoyage - a travel tech platform

Empower women to raise their voice

Eg: Mobile phone + Internet + Social Media.

Govt. Benefits etc.
DBT. (JAM)

Eg: udemy, Youtube
Coursera
HeMantna

Eg: PM Vidhya App.

Science is also Increasing women LFPRs.

Eg: Work from Home

Science can also be used to make Urbanization Sustainable

Eg: reflective paint @ Dharavi

Eg: Green Building Code.

LEED - India an international recognized certification system.

Food Security

Eg: Green Revolution (H.V.)
Climate-Resilient Crops.

Robotics

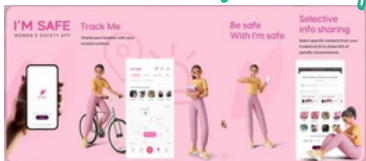
Eg: DAKSH, NETRA
SROY.

Improved Health Care

Eg: CORONA VACCINE (Covaxin)



Miscellaneous





It was the scientific revolution that led to development of CO_2 emitting machines.

REVISE CLIMATE CHANGE

Bane



With development of Digitalization women-centric crimes are increasing

Eg: cyberbullying against Kerala women.

Eg: NCRB Report said out of 2597 cases 1896 cases were related to disturbing or transmitting sexual content.

→ 6%

Eg: Ultrasound → female foeticides



With Green revolution scientific development leads to increase in the use of fertilizers, pesticides and in milk industry use of Anti-Biotics.

- ✓ land degradation
- ✓ Anti-Microbial Resistance

Ground water contamination. PBE HR TH



Devastating effect of AI and Machine learning on Employment.

Eg: WEF 2014: Gita Gopinath says AI could impact 30% of jobs in India.

Eg: AI Generative fake video - Zelensky Kamla Harris.

Science is used for the devastation of Humanity

Eg: John Dalton's Atomic theory was used for the devastation of Humanity



During WW-II, the USA was working on a project called Manhattan project which led to the development of First Nuclear Bomb.

"Most devastating and most lethal scientific test that was conducted on Humanity."



Genetic Engineering

On the other hand raising Ethical concern.

Eg: He Jiankui Edited genes of twin girls using CRISPR tech.

Helps in developing climate-resilient crops. Pest resistance crops.

Eg: Bt-Cotton

Improving precision Medicine based on Genetic data.



We need to apply Ethics in Scientific Research.

Right thing to do.

THE SEVEN DANGERS TO HUMAN VIRTUE

1. **Wealth**
without work
2. **Pleasure**
without conscience
3. **Knowledge**
without character
4. **Business**
without ethics
5. **Science**
without humanity
6. **Religion**
without sacrifice
7. **Politics**
without principle

MAHATMA GANDHI

"An eye for an eye makes
the whole world Blind".



Buddha is
the key

Moderation

"Madhyam
Marga"

- Thank you -